Basic Imagery Interpretation Report



NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

25X1

SLONIM VLF RADIO COMMUNICATIONS TRANSMITTER STATION

(SLONIM WEST SLAVE MOON STATION)

25X1

DEPLOYED COMM/ELEC/RADAR FACILITIES USSR **JULY 1969**

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NSA review completed

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	INSTALLATION OR ACTIVITY NAME COUNTRY	
	Slonim VLF Radio Communications Transmitter Station UR	
	UTM COORDINATES GEOGRAPHIC COORDINATES NA 53-07-52 N 025-23-34 E	25X1
	ACIC. US Air Target Chart, Series 200, Sheet M0168-18HL, 4th ed, Oct 66, scale 1:200,000 (SECRET)	J
	NEGATION DATE (If required) NA	
	ABSTRACT	
	This report provides a detailed imagery-derived analysis of the newly designated Slonim West Slave MOON Station (Slonim VLF Radio Communications Transmitter Station), USSR. It includes a functional analysis, location map, mensuration, and photography of the facility. This facility is one of two MOON (long range navigation aid) slave facilities in the USSR which were previously identified as very low frequency (VLF) communications stations. The other facility is located at Zhemkovka (25X1
	INTRODUCTION	
4	Slonim West Slave MOON Station is one of the five stations in the MOON 3 navigational system (Figure 1). MOON 3 is a long-range low frequency (LF) hyperbolic navigational aid system The MOON 3 system, an update of the original MOON system, The MOON system has been present in the Soviet Union since the late 1950s or early	25X1
	1960s and was known to consist of four slave stations, two on a north/south baseline and two on an east/west baseline with a master station located at the intersection of the east/west and north/south baselines. The northern slave station is at Pryazha (61-45-35N 033-41-35E,	25X1 25X1
	Slonim was not originally identified as the western slave station primarily because of the difference in its antenna configuration from the other known MOON facilities.	25X1 25X1
	respects to the western MOON station at Zhemkovka (53-17-18N 048-07-15E; Both facilities have an LF pentagonal array and balloon-supported probable LF vertical wire arrays. Similar balloon pads have been seen at the master MOON station	25X1
	and the northern and southern MOON slave stations. ³ Slonim West Slave MOON Station is located at an elevation of 650 feet, 4 nautical miles (nm) northeast of Slonim, USSR. The surrounding terrain is relatively flat and quite low which makes it well suited for LF signal propagation. The facility is secured by a single wire fence and contains approximately 455 acres.	
	BASIC DESCRIPTION	
	Operational Functions	
	Two antennas are located in the operations area. The major antenna is a centrally located LF pentagonal array and the second is a balloon supported probable LF vertical wire antenna. The LF pentagonal array contains six towers, each high. One of these towers	25X1
	is centrally located and the remaining five (perimeter towers) form a pentagonal config-	
	-1-	25X1
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uration around it. The central tower is fed by two separate parallel overhead radio frequency (RF) feedlines that originate at the hardened control/transmitter building (item 5, Figure 2, and Table 1). Each of the perimeter towers is fed via a buried cable emanating from the central tower. Small probable tuning buildings have been placed at the base of each tower. Each of the towers has four stories of guying. A circle of 10 equally spaced masts, each high with a chord distance separation of 250 feet, is at a radius of 410 feet from the central tower. The balloon pad (item 6, Figure 2) is immediately west of the hardened control/transmitter building.

The support area, located in the northwestern corner of the facility, contains 24 buildings with a total floorspace of approximately 59,000 square feet.

Status and Activity

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The Slonim facility was first observed in Although the pentagonal array 25X1 was probably complete on the initial photography, its completed configuration could not be confirmed until when it appeared to be operational.

The pad for the balloon antenna was complete in but the 25X1 balloon was not observed until

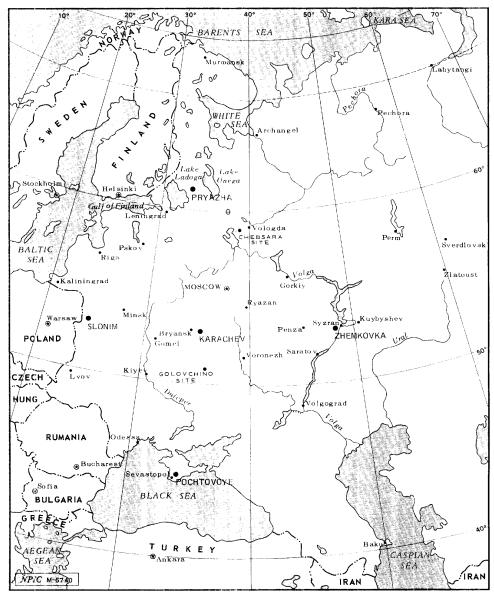


FIGURE 1. LOCATION MAP -2 -

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